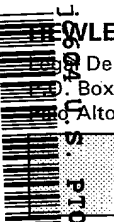


66/07/99



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PATENT APPLICATION

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IN THE U.S. PATENT AND TRADEMARK OFFICE
Patent Application Transmittal Letter

ASSISTANT COMMISSIONER FOR PATENTS
Washington, D.C. 20231

Sir:

Transmitted herewith for filing under 37 CFR 1.53(b) is a(n): ☒ Utility () Design
☒ original patent application,
() continuation-in-part application

JC594 U.S. PTO
09/325040
06/07/99

INVENTOR(S): Jon A Brewster et al

TITLE: Document Delivery System For Automatically Printing A Document On A Printing Device

Enclosed are:

- (X) The Declaration and Power of Attorney. ☒ signed () unsigned or partially signed
(X) 16 sheets of drawings (one set)
XX Information Disclosure Statement and Form PTO-1449 () Associate Power of Attorney
() Priority document(s) () (Other) (fee \$)

CLAIMS AS FILED BY OTHER THAN A SMALL ENTITY				
(1) FOR	(2) NUMBER FILED	(3) NUMBER EXTRA	(4) RATE	(5) TOTALS
TOTAL CLAIMS	53 — 20	33	X \$ 18	\$ 594
INDEPENDENT CLAIMS	3 — 3	0	X \$ 78	\$ 0
ANY MULTIPLE DEPENDENT CLAIMS	0		\$ 260	\$ 0
BASIC FEE: Design (\$310.00); Utility (\$760.00)				\$ 760
TOTAL FILING FEE				\$ 1,354
OTHER FEES				\$
TOTAL CHARGES TO DEPOSIT ACCOUNT				\$ 1,354

Charge \$ 1,354 to Deposit Account 08-2025. At any time during the pendency of this application, please charge any fees required or credit any over payment to Deposit Account 08-2025 pursuant to 37 CFR 1.25. Additionally please charge any fees to Deposit Account 08-2025 under 37 CFR 1.16, 1.17, 1.19, 1.20 and 1.21. A duplicate copy of this sheet is enclosed.

"Express Mail" label no. EL245277409US
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By Curtis G. Rose
Typed Name: Curtis G. Rose

Respectfully submitted,

Jon A Brewster et al

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Date: June 2, 1999

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**DOCUMENT DELIVERY SYSTEM FOR AUTOMATICALLY PRINTING A
DOCUMENT ON A PRINTING DEVICE**

Field of the Invention

This invention relates to the printing field. More particularly, this invention is a document delivery system for automatically printing a document on a printing device.

Background of the Invention

In the mid 1400's, Johann Gutenberg revolutionized how information is disseminated through his invention of the movable type press. With the publication of the Mazarin Bible, documents which were once held in the exclusive domain of a chosen few were now widely available to the masses. Nearly 550 years later, the mass media revolution that Gutenberg started is alive and well, complete with newspapers such as the New York Times and the Washington Post, magazines such as Newsweek and Sports Illustrated, and literally thousands upon thousands of other lesser known publications.

While these thousands of publications cover a wide range of interests, from news to sports to fashion to model rocketry, they have one thing in common: they are intended to be read by a mass market. Unlike the pre-Gutenberg days, where a document would literally be read by only one person or a very small number of people, it is not economically viable for today's publications to have such a small readership, due at least in part to high marketing, production and distribution costs. In fact, many of today's publications are funded to a very large extent by the advertising contained within them. These advertisers are attracted to publications

that can consistently deliver a large, reliable audience of consumers that will be exposed to their advertising.

While this mass market publication model has worked well for hundreds of years, it is not without its problems. One such problem is that a typical reader of a publication has a wide variety of interests, and no single mass market publication will be able to satisfy all these interests. For example, a reader who is interested in international news, golf, fly fishing, Genealogy, and computers may have to subscribe to several different publications to satisfy these interests. Of course, since these publications are intended for a mass market, they will also contain a significant amount of material that our reader is not interested in and will not read. It goes without saying that if there is a significant amount of material a reader isn't reading, there is a significant amount of advertising the reader isn't reading either – as well as a significant amount of paper that is wasted. Advertisers know this, and agree to pay considerably less to a mass market magazine or newspaper per 1000 exposures to their ad than they would pay to a direct-mail generator that can provide a more specific guarantee that the people exposed to their ad are of a demographic group that will be much more likely to read their ad and be interested in it.

In addition, it is neither cost-effective nor time effective for most readers to subscribe to and/or read a large number of publications. Generally, the typical reader will only subscribe to a few publications that are of the most interest to them. The reduced readership level of the publications our typical reader chooses not to subscribe to, even though he would be interested in at least some of the editorial and advertising content contained inside, means that the publication receives less subscription and advertising revenue than they otherwise would. If many other readers make the same decision, the continued health of the publication may be in jeopardy, and the publication may be forced to go out of business. In fact, many publications do go out of business yearly for failing to attract a sustaining number of advertisers and readers – even if there are a large number of readers that would be interested in reading their publication, and a corresponding number of advertisers anxious to have these readers exposed to their ads. In general, publications that fail to attract a substantial mass market of people willing to pay for and/or read them cease publication. This is a shame, since many of these publications would enrich

the diversity of information available to all readers, and would provide an avenue for lesser known writers and artists to practice their wares.

In more recent years, a new type of publication has emerged: the electronic publication. Readers of these publications typically sign onto the Internet through their computer, and read the publications online. Some of these publications, such as CNN.com and pointcast.com, allow users to state personal preferences on what type of material they want to read. Often, these personalized electronic publications include advertising, usually in the form of a banner ad that is placed on the top of the screen.

While these electronic publications have been an interesting development in the distribution of information, they still represent a tiny fraction of the information that is published under the more traditional post-Gutenberg model. Many readers of these electronic publications complain that they are very difficult to read, especially for long periods of time. While it might be convenient for a reader to sign onto the Internet to look at the CNN.com web site for a brief summary of late breaking news, this reader would most likely only spend a few minutes at the site, and would likely still subscribe to the more traditional print media such as Newsweek or the Washington Post. They would also likely spend significantly more time reading the more traditional printed publication than they would spend reading the electronic publication, and correspondingly, spend more time being exposed to the ads in the traditional printed publication. Accordingly, printed publications continue to flourish today – more than five centuries after Gutenberg made them possible.

While these printed publications have certainly benefited modern society, no significant attempt has been made thus far to solve the underlying problems with these publications discussed above.

Summary of the Invention

A document is operatively coupled to a printing device, either directly or through a network such as the Internet. A print schedule is stored that keeps track of when a document should be printed on the printing device. When the print schedule indicates the document should be printed, the document is automatically transmitted

to the printing device without user intervention. The printing device automatically prints the document, again without user intervention. The document can be stored on a electronic device, such as a personal computer connected to the printing device, or can be stored on a document server accessible to the printing device through the Internet.

A user profile is stored that contains information about the recipient of the document such as name, email address, household income, and interests. This user profile is updated when a document is printed on the printing device. This user profile can be used to select specific information of interest to the user to be included in a personalized document. Since advertising can also be included in the document, the user profile can also be used to select advertising likely to be of interest to the user to be included in the personalized document.

A product can be subsidized for a user, based on the information contained in the user profile. For example, if a user profile indicates that a specific user has printed a specific number of "preferred" documents, such as those documents containing advertising or otherwise under the control of the document delivery system, a product such as a print consumable, such as an inkjet cartridge or a laser toner cartridge, can automatically be sent to the user. Likewise, printable media such as paper can also automatically be sent to user. Alternatively, coupons for free or discounted products such as those described above can be mailed, sent electronically, or otherwise distributed to the user.

Description of the Drawings

Fig. 1 shows a block diagram of a document delivery system of one embodiment of the invention.

Fig. 2-4 show flowcharts detailing the operation of the transmission module and the printing module of the document delivery system of one embodiment of the invention.

Fig. 5 shows how user profile information is acquired from a user in one embodiment of the invention.

Fig. 6 shows how user profile information is acquired from a user in one embodiment of the invention.

Fig. 7 shows a print schedule for the delivery of documents in one embodiment of the invention.

5 Fig. 8 shows how the print schedule of Fig. 7 can be modified by the user.

Figs. 9A-9B shows a document printed by the printing device according to one embodiment of the invention.

Fig.10 shows a document printed by the printing device according to one embodiment of the invention.

10 Figs. 11A-11D shows a document printed by the printing device according to one embodiment of the invention.

Fig. 12 shows a document printed by the printing device according to one embodiment of the invention.

15 Detailed Description of the Embodiments

Fig. 1 shows a block diagram of a document delivery system of one embodiment of the invention. Document delivery system 10 contains document server 100. In the preferred embodiment, document server 100 is operatively
20 coupled via network 200 to a variety of personal computers, printing devices, and other electronic devices, collectively referred to as devices 300. Document server 100 contains edit module 120, transmission module 150, and knowledge module 170. Edit module 120 receives inputs from one or more content providers 50, and/or one or more advertising providers 80. Distribution module 400 is operatively coupled to
25 document server 100. In the preferred embodiment, document server 100 is a minicomputer/server, such as an HP 9000 server sold by the Hewlett-Packard Company, although those skilled in the art will appreciate that document server 100 could be any type of other computing or electronic device(s) that performs the functions described herein and still fall within the spirit and scope of the invention. Network 200 is preferably the Internet, although an Intranet, local area network, or
30 other type of public or private network, either wired (e.g., telephone, cable TV, etc) or wireless (e.g., satellite, radio, cell phone, etc), could also or additionally be used.

Devices 300 are shown in Fig. 1 as being capable of being configured in a wide variety of ways. For example, personal computer 310 is shown connected to printing device 320, which prints document 10320 for user 20320. Personal computer 310 is operatively coupled to network 200. In contrast, printing device 330, which prints document 10330 for user 20330, is operatively coupled to network 200 without an intervening personal computer or other electronic device. Printing device 350, which prints document 10350 for user 20350, is shown connected to electronic device 340, which could be a set top box, television set, palmtop PDA or other type of electronic device that is operatively coupled to network 200. Finally, printing device 370, which prints document 10370 for user 20370, is connected to electronic device 360, which is operatively connected to network 200. The printing devices shown in Fig. 1 could be printers, such as the HP DeskJet 890 printer, HP LaserJet V printer, or other models of printers manufactured by HP or others; so-called "mopiers" or other multi-function printing devices that can print, fax, scan, and/or copy, or any other device capable of transferring information to a printable media such as plain paper, specialty paper, transparencies, or other media capable of tangibly receiving such information and which can be easily carried about by the user.

Fig. 2-4 show flowcharts detailing the operation of transmission module 150 and printing module 380 of one embodiment of the invention. In Figs. 2-4, the flow diagram shown in the left column is executed by transmission module 150 of document server 100, and the flow diagram in the right column is executed by printing module 380. As Fig. 1 shows, printing module 380 could be located in any of the devices 300, such as in personal computer 310, printing device 330, or electronic device 340, operatively coupled via network 200 to document server 100, or it could be located within document server 100 itself, such as in knowledge module 170. Preferably, transmission module 150 and printing module 380 represents software that executes on suitably programmed microprocessor(s) within a device 300 and/or document server 100, although those skilled in the art will appreciate that special purpose hardware or other mechanisms could be employed to execute the flowcharts shown in Figs. 2-4.

Referring now to Fig. 2, the flow diagram for transmission module 150 starts in block 1000, and the flow diagram for printing module 380 starts in block 2000. Since there is a great deal of interaction between these two flow diagrams, as represented by dashed lines connecting the two columns, the operation of the two flow diagrams will be described simultaneously.

In block 2100, user profile data is sent to document server 100 to be stored in the user profile. This user profile data can take on many different forms, from simple to very detailed. Fig. 5 shows a very simple acquisition of user profile data, such as that used in HP's Instant Delivery Program, the first version of which was generally available to the public less than one year from the filing date of this patent application. In this program, only three pieces of information are stored in the user profile: type of printer, email address, and whether HP can contact the user or not. Fig. 6 shows a more complicated user profile than that currently used in HP's Instant Delivery Program, which includes the user's name, email address, company name, city, state, country, zip or postal code, phone number, printer information, and areas of interest. Those skilled in the art will appreciate that more or less user profile data from those shown in Figs. 5 and 6 could be sent to transmission module 150 in block 2100 and still fall within the spirit and scope of the invention, and that at least some of this information could come from a source other than the user. For example, the user profile data could also include household income, age, and sex of the user, among other things. In any event, block 1100 receives the user profile data sent by block 2100. Block 1200 stores the user profile data, preferably in knowledge module 170. Alternately, the user profile data could be stored in device 300 or in some other local or remote location.

Block 2200 checks to see whether a document should be received from document server 100. This is done by checking print schedule 390 which is preferably stored on a device 300 or document server 100, but may be stored in some other local or remote location. Printing schedule 390 preferably contains information that can be used to determine when documents should be printed by the printing device, such as upon document creation, user requested time, lapse of specified time period, and/or occurrence of one or more external events (e.g., a stock price or index reaching a specified value, a final score of a sporting event, etc). Printing schedule

390 may be associated with an individual user, a device, or a group or users and/or devices. In addition, each entry of printing schedule 390 could result in the printing of one or more documents.

Fig. 7 shows one example of printing schedule 390, of the type that might be used in an enhanced version of HP's Instant Delivery Program. In this example, the title of delivery, delivery schedule, next delivery date and time, and last delivery status are shown. Preferably, the user can select what time a document should be printed, whether it should be printed on a specific day of the week or month, weekdays, or weekends, and whether the printing schedule should expire after a specific period of time or continue indefinitely.

Referring again to Fig. 2, printing module 380 monitors printing schedule 390 to see if a document should be requested from document server 100 or from another source. When block 2200 determines that a document should be requested from document server 100 or from another source, block 2200 is answered affirmatively, and block 2300 automatically requests the document without user intervention from server 100 or from another source, as will be described in more detail later. Note that if printing module 380 is located on device 300, block 2200 operates in a "pull" mode – where the document is "pulled" from document server 100 or another source to device 300. However, if printing module 380 is located remotely from device 300, such as in document server 100, block 2200 operates in a "push" mode – where the document is "pushed" from document server 100 or another source to device 300. If block 2300 determines that the document is located on document server or at another source accessible via network 200, and if device 300 is currently in a disconnected state where it is not operatively coupled to the network, block 2300 will sign on to or otherwise enter a connected state with network 200, so that device 300 is operatively coupled to network 200. Meanwhile, block 1300 checks to see if a document has been requested from printing module 380 in block 2300. Once it determines that such a document has been requested, block 1400 generates the document for printing module 380. Block 1500 then sends the document to printing module 380. Block 2400 checks to see whether a document has been received from document server 100 via block 1500. Once such a document has been received, block 2500 automatically prints the document, without user intervention, on a printing device. The term

“without user intervention” means that a user is not directly involved in the printing operation; the document is sent automatically to a device 300 to be printed out by a printing device. The user does not press any “print” buttons or otherwise be directly involved in the printing process; in fact, the user may not even be present in the same room, city, state, or country as device 300 during the printing operation. The printing operation automatically occurs in an unattended state – regardless of whether the user is present or not. In addition, if print schedule 390 is stored in a device-independent manner, such as on document server 100, a travelling user could “log in” to document server 100 and have his or her customized document sent to a device 300 that is convenient to the user’s current location.

Referring now to Fig. 3, block 2600 checks to see whether the document printed successfully. If not, block 2800 performs error handling, such as attempting to print the document again, notifying the user that the printing device is out of paper or has some other error condition, or simply deciding not to print the document. When the document prints successfully, block 2900 informs document server 100 that the document printed successfully. Block 1600 waits for an indication from printing module 380 that the document did print successfully. When such an indication is received, block 1700 updates the user profile with this information.

The latest publicly released version of HP’s Instant Delivery Program as of the filing date of this application (1.2.1) does not execute some of the blocks shown in Fig 3. Specifically, blocks 2900 and 1600-1900 are not executed by this version or any previously publicly released versions of Instant Delivery. Instead, in this embodiment, flow of control moves from block 2600 to block 4100 of Fig. 4, as will be discussed later, and from block 1500 back to block 1300 of Fig. 2.

An alternate embodiment has been contemplated where other information is transmitted back to document server 100 in block 2900 to update the user profile preferably stored in knowledge module 170. This other information could be ink usage (total usage or usage broken out by ink color), printable media usage (number of pages printed, type of media used, etc), or other types of information. In addition, another alternate embodiment has been contemplated where some or all of the information contained in the user profile stored in knowledge module 170 came from a source other than the user via printing module 380. For example, publicly or

privately available information about the user, and/or the devices 300 he/she/they use, could be acquired from a wide variety of different sources and inserted into the user profile preferably stored in knowledge module 170.

Block 1800 examines the user profile preferably stored in knowledge module 170 to determine whether a product subsidy should be provided to the user. For example, if the information in the user profile indicates that this user has printed off his 1000th document, such as a “preferred” document that contains advertising from advertising providers 80 or is otherwise under the control of edit module 120, providing a product subsidy to the user may be warranted. For purposes of this invention, a “product” could be a print consumable or other product. A “print consumable” is an inkjet cartridge for an inkjet printer, ink for such an inkjet cartridge, a toner cartridge for a laser printer, toner for such a toner cartridge, or any other product or substance that is depleted when a document gets printed, including printer ribbons, etc. Note that the “ink” referred to above would typically be of a permanent variety, but erasable ink, such as that sold by the Eink Company, could also be used.

Note that the product subsidy referred to herein is preferably funded at least in part by advertising revenue received from advertising providers 80 (Fig. 1), but an embodiment has been contemplated where the product subsidy is funded at least in part from distribution revenue received from content providers 50 (Fig. 1). In either case, information (such as statistical information) about what was printed by whom is preferably provided to content providers 50 and/or advertising providers 80 – preferably as a document that is automatically sent to one or more printing devices according to the teachings of this invention.

Other forms of products that are contemplated to be subsidized by this invention include printable media, such as plain paper, specialty paper, transparencies, and the like, and may also included devices 300 such as printing devices, electronic devices, and personal computers. In fact, alternate embodiments have been contemplated where other products, such as a subscription price to a document, or even a product not directly related to the document delivery system shown herein, such as soap or dog food, are subsidized. If block 1800 determines that such a subsidy is warranted, block 1900 requests that distribution module 400

provides such a subsidy to the user. In one embodiment, distribution module 400 simply mails a product such as a print consumable or other product such as the type described above to a user at the address specified in the user profile. In another embodiment, distribution module 400 mails or electronically generates a coupon that the user can use to receive a free or discounted product of the type described above. Regardless of whether block 1800 is answered affirmatively or negatively, flow of control then returns back to block 1300 (Fig. 2) to see if another document has been requested from the printing module.

Referring again to Fig. 3, after block 2900 informs document server 100 that the document printed successfully, flow of control moves to block 4100 (Fig. 4), which checks with document server 100 to see what the current version of printing module 380 is. Block 3100 checks to see whether such a request has been received, and when it is, block 3200 sends information concerning the current version of the printing module to printing module 380. Block 4200 compare this information from document server 100 with its own version and determines whether an updated version of printing module 380 is available. For example, if printing module 380 is running version 4.0, and document server 100 indicates that version 4.1 is the current version of printing module 380, block 4200 would determine that an updated version of printing module 380 is available, and flow of control would move to block 4300. Block 4300 checks to seeing whether this updated version of printing module 380 should be requested to be downloaded. While a user would typically be asked whether such a download should be requested or not, and would typically perform this download at a convenient time, such a step could also be performed automatically without user intervention. If such a download is requested, block 4400 requests the download. Once such a download has been requested, block 3400 is answered affirmatively, and block 3500 downloads the updated printing module, which is then installed in block 4500. Regardless of how blocks 4200 and 4300 are answered, flow of control moves to block 4600, which checks to see if a disconnected state should be entered. If block 2300 (Fig. 2) determined that device 300 was in a disconnected state when the document was requested, as discussed above (i.e., not operatively coupled to network 200), block 4600 is answered

affirmatively, and block 4700 reenters the disconnected state. In any event, flow of control returns to block 2200 of Fig. 2.

Referring again to print schedule 390 shown in Fig. 7, it can be seen that many different types of documents can be requested to be printed. For example, the title of document 11000 specifies a network address, such as an Internet uniform resource locator (URL) that contains the network location of a document to be printed. Note that this URL may be partially or completely hidden from the user, as is the case with the URL for document 15000 (<http://www.beloitdailynews.com>). In this scenario, edit module 120 of document server 100 merely goes out to the Internet at the URL indicated (which would be shown in Fig. 1 as one of the content providers 50), and captures the indicated document, which is then transmitted to a printing device via transmission module 150 and printing module 380, as has been discussed. Alternatively, device 300 could go directly out to the URL itself without assistance from document server 100; in this case, block 2300 (Fig. 2) requests document 11000 from another source -- directly from the content provider 50 (at the indicated URL) via network 200. This alternate embodiment is used by the current version of HP's Instant Delivery Program.

In contrast, document 12000 is not a document that originates with a content provider 50 via the Internet, but instead is stored directly on device 300, such as a printing device, personal computer, or other electronic device. An example of such a document could be a daily calendar from a program such as Microsoft Outlook, which the user has requested be printed automatically to his printer, without any user intervention, at 7:00 a.m. every weekday morning. In such an embodiment, printing module 380 does not need to request the document from document server 100, since it can access the documents without going through network 200. In this embodiment, block 2300 of Fig. 2 requests the document from another source -- device 300. While block 2900 would still preferably indicate that the document was printed, and while block 1700 would still preferably update the user profile in knowledge module 170, printing such a document would preferably not generate any type of credit towards a product subsidy, since such a document would not be considered a "preferred" document; e.g., not a document under the control of edit module 120.

Referring again to Fig. 7, a print schedule of document 13000 is shown. Document 13000 is referred to as a “personalized document”. A “personalized document” is a document that is assembled by edit module 120 of document server 100 from a variety of content providers 50 and advertising providers 80, based on information contained in the user profile stored in knowledge module 170. For example, document 13000 is a “personalized document”. Our user has requested that document 13000 -- his personalized newspaper -- be printed at 6 a.m. every day. Edit module 120 examines the user’s interests as specified in the user profile stored in knowledge module 170 to assemble the document from selected content providers 50 in which the user has indicated an interest. Edit module 120 also inserts advertising from selected advertising providers 80--again based on the user profile stored in knowledge module 170.

Fig. 8 shows how the print schedule 390 of Fig. 7 can be edited by the user. The user can use the publisher’s recommended schedule, use a default schedule the user has set, or use a custom schedule for delivery. If a custom schedule is selected, the user can select a daily, weekly, or monthly delivery, or select a delivery once every specified number of days, or specify every weekday. In addition, the time of day can also be specified: once at a designated time, multiple times during the day, or multiple times separated by a specified period of time. While not shown here, the user could also edit print schedule 390 to request that a document be sent upon creation, or upon the occurrence of an external event.

Figs. 9A-B show document 11000 printed by the printing device according to one embodiment of the invention. Note that this document came from one content provider 50 via network 200 (either through document server 100 or directly), and contains no advertising. While document 11000 is preferably formatted by content provider 50 such that the information contained in the document is optimized to be printed, such formatting is not necessary.

Fig.10 shows document 12000 printed by the printing device according to one embodiment of the invention. Note that this document is a user’s daily calendar which came directly from device 300 and not from document server 100 via network 200.

Figs. 11A-D show document 13000 printed by the printing device according to one embodiment of the invention. Note that this document is a user's personalized newspaper which contains information in which the user has indicated a specific interest in, as stored in the user profile in knowledge module 170. Note also that this document contains advertising that edit module 120 determined the user would also be interested in, again based on the information contained in the user profile stored in knowledge module 170. As has already been discussed, when the user prints a sufficient number of such "preferred" documents, the user may receive a subsidy of a print consumable or other product(s).

Fig. 12 shows document 14000 printed by the printing device according to one embodiment of the invention. Note that document 14000 is the HP Instant Delivery Times – a document located on document server 100. While this document does not contain advertising per se, it is still considered to be a "preferred document", since it is under the control of edit module 120. Document 14000 informs users of Instant Delivery of new releases or new information about the Instant Delivery Program.

What is claimed is:

CLAIMS

- 5 1. In a document delivery system having a document capable of being
operatively coupled to a printing device, a method of printing the document on the
printing device comprising the steps of:
 storing a print schedule;
 automatically requesting, without user intervention, the document based on
10 the print schedule;
 transmitting the document to the printing device; and
 automatically printing, without user intervention, the document on the
printing device.
- 15 2. The method of claim 1, further comprising the step of:
 storing a user profile.
3. The method of claim 2, further comprising the step of:
 responsive to printing the document on the printing device, updating the user
20 profile.
4. The method of claim 3, further comprising the step of:
 responsive to the updating step, subsidizing a product for a user.
- 25 5. The method of claim 4, wherein the subsidizing a product step further
comprises the step of:
 sending a print consumable to the user.
6. The method of claim 4, wherein the subsidizing a product step further
30 comprises the step of:
 sending a coupon for a free print consumable to the user.

7. The method of claim 4, wherein the subsidizing a product step further comprises the step of:

sending a coupon for a reduced price print consumable to the user.

8. The method of claim 4, wherein the subsidizing a product step further comprises the step of:

sending printable media to the user.

9. The method of claim 4, wherein the subsidizing a product step further comprises the step of:

sending a coupon for printable media to the user.

10. The method of claim 4, wherein the subsidizing a product step further comprises the step of:

sending a second printing device to the user.

11. The method of claim 4, wherein the subsidizing a product step further comprises the step of:

sending a coupon for a second printing device to the user.

12. The method of claim 2, further comprising the steps of:
including advertising content into the document.

13. The method of claim 12, wherein the step of including advertising content further comprises the step of:

personalizing the advertising content based on the user profile.

14. The method of claim 2, wherein the step of transmitting the document further comprises the step of personalizing the content of the document based on the user profile.

15. The method of claim 13, further comprising the step of:
responsive to the printing step, updating the user profile.

16. The method of claims 15, further comprising the step of:
responsive to the updating step, subsidizing a product for a user.

17. The method of claim 16, wherein the subsidizing a product step further
comprises the step of:
sending a print consumable to the user.

18. The method of claim 16, wherein the subsidizing a product step further
comprises the step of:
sending a coupon for a free print consumable to the user.

19. The method of claim 16, wherein the subsidizing a product step further
comprises the step of:
sending a coupon for a reduced price print consumable to the user.

20. The method of claim 16, wherein the subsidizing a product step further
comprises the step of:
sending printable media to the user.

21. The method of claim 16, wherein the subsidizing a product step further
comprises the step of:
sending a coupon for printable media to the user.

22. The method of claim 16, wherein the subsidizing a product step further
comprises the step of:
sending a second printing device to the user.

23. The method of claim 1, wherein the document is capable of being operatively coupled to the printing device via a network, the automatically requesting step further comprises the steps of:

entering a disconnected state where the printing device is not operatively
5 coupled to the network;
monitoring the print schedule in the disconnected state; and
responsive to the monitoring step, entering a connected state where the
printing device is operatively coupled to the network.

10 24. The method of claim 23, further comprising the step of:

after execution of the automatically printing step, re-entering the
disconnected state where the printing device is not operatively coupled to the
network.

15 25. The method of claim 1, wherein the document is capable of being operatively coupled to the printing device via a network, further comprising the steps of:

checking whether the printing device printed the document using a latest
version of a printing module;

determining that the latest version of the printing module was not used,

20 responsive to the checking step; and

downloading the latest version of the printing module via the network,
responsive to the determining step.

26. The method of claim 25, further comprising the steps of:

25 informing a user that the latest version of the printing module is available;

asking the user whether they would like to have the latest version of the
printing module downloaded; and

performing the downloading step only if the user indicated in the asking step
that they would like to have the latest version of the printing module downloaded.

30

27. The method of claim 1, further comprising the step of:
retrieving the document from an electronic device connected to the printing
device.

5 28. The method of claim 1, further comprising the step of:
retrieving the document from a personal computer connected to the printing
device.

29. The method of claim 1, further comprising the step of:
10 retrieving the document from a content provider coupled to the printing
device via a network.

30. The method of claim 1, further comprising the step of:
retrieving the document from a document server coupled to the printing
15 device via a network.

31. The method of claim 30, further comprising the step of:
the document server assembling the document from a plurality of content
20 providers.

32. The method of claim 31, further comprising the step of:
the document server inserting advertising into the document from an
advertising provider.

25 33. The method of claim 3, further comprising the steps of:
the document server inserting personalized advertising into the document
from an advertising provider based on the user profile; and
retrieving the document from the document server coupled to the printing
30 device via a network.

34. A business method, comprising the steps of:
monitoring the usage of a printing device; and
subsidizing the purchase of a product, based on the monitoring step.

5 35. The business method of claim 34, wherein the monitoring step further
comprises the step of:
updating a user profile to indicate that a document has been printed for a user.

10 36. The business method of claim 35, wherein the updating step indicates that
advertising in the document has been printed.

15 37. The business method of claim 34, wherein the monitoring step further
comprises the step of:
updating a user profile to indicate the amount of ink that was used when a
document was printed.

20 38. The business method of claim 37, wherein the updating step further
comprises the steps of:
updating the user profile to indicate the amount of each of a plurality of
different colored ink that was used when a document was printed.

39. The business method of claim 34, wherein the product in the subsidizing step
is a print consumable.

25 40. The business method of claim 34, wherein the product in the subsidizing step is
printable media.

30 41. The business method of claim 34, wherein the product in the subsidizing step
is a second printing device.

42. The business method of claim 34, wherein the product in the subsidizing step
is a subscription.

43. The business method of claim 34, wherein said subsidizing step is funded by advertising revenue.

5 44. The business method of claim 34, wherein said subsidizing step is funded by distribution revenue.

45. The business method of claim 43, wherein said subsidizing step is funded by distribution revenue.

10

46. The business method of claim 35, further comprising the step of providing information about the document that was printed for the user to an advertising provider.

15

47. The business method of claim 35, further comprising the step of providing information about the document that was printed for the user to a content provider.

48. The business method of claim 46, further comprising the step of providing information about the document that was printed for the user to a content provider.

20

49. An apparatus for printing a document, comprising:
a document server;
a printing device, operatively coupled to the document server;
a print schedule, operatively coupled to the printing device, that monitors
25 when the document should be printed by the printing device;
the document server automatically transmitting, without user intervention, the document to the printing device, responsive to an indication from the print schedule;
and
the printing device automatically printing, without user intervention, the
30 document on the printing device.

50. The apparatus of claim 49, further comprising:
a network operatively coupled between the document server and the printing
device.

5 51. The apparatus of claim 49, further comprising:
a user profile stored on the document server.

52. The apparatus of claim 51, wherein the user profile further comprises:
an indication that the document was printed by the printing device.

10

53. The apparatus of claim 52, wherein the user profile further comprises:
an indication that the document contained an advertisement.

Abstract of the Disclosure

5 A document is operatively coupled to a printing device, either directly or
through a network such as the Internet. A print schedule is stored that keeps track of
when a document should be printed on the printing device. When the print schedule
indicates the document should be printed, the document is automatically transmitted
to the printing device without user intervention. The printing device automatically
10 prints the document, again without user intervention. The document can be stored on
a electronic device, such as a personal computer connected to the printing device, or
can be stored on a document server accessible to the printing device through the
Internet. A user profile is stored that contains information about the recipient of the
document, such as name, email address, household income, and interests. This user
15 profile is updated when a document is printed on the printing device. This user
profile can be used to select specific information of interest to the user to be included
in a personalized document. Since advertising can also be included in the document,
the user profile can also be used to select advertising likely to be of interest to the
user to be included in the personalized document. A product can be subsidized for a
20 user, based on the information contained in the user profile. For example, if a user
profile indicates that a specific user has printed a specific number of “preferred”
documents, such as those documents containing advertising or otherwise under the
control of the document delivery system, a product such as a print consumable, such
as an inkjet cartridge or a laser toner cartridge, can automatically be sent to the user.
25 Likewise, printable media such as paper can also automatically be sent to user.
Alternatively, coupons for free or discounted products such as those described above
can be mailed, sent electronically, or otherwise distributed to the user.

FIG. 1

DOCUMENT DELIVERY SYSTEM 10

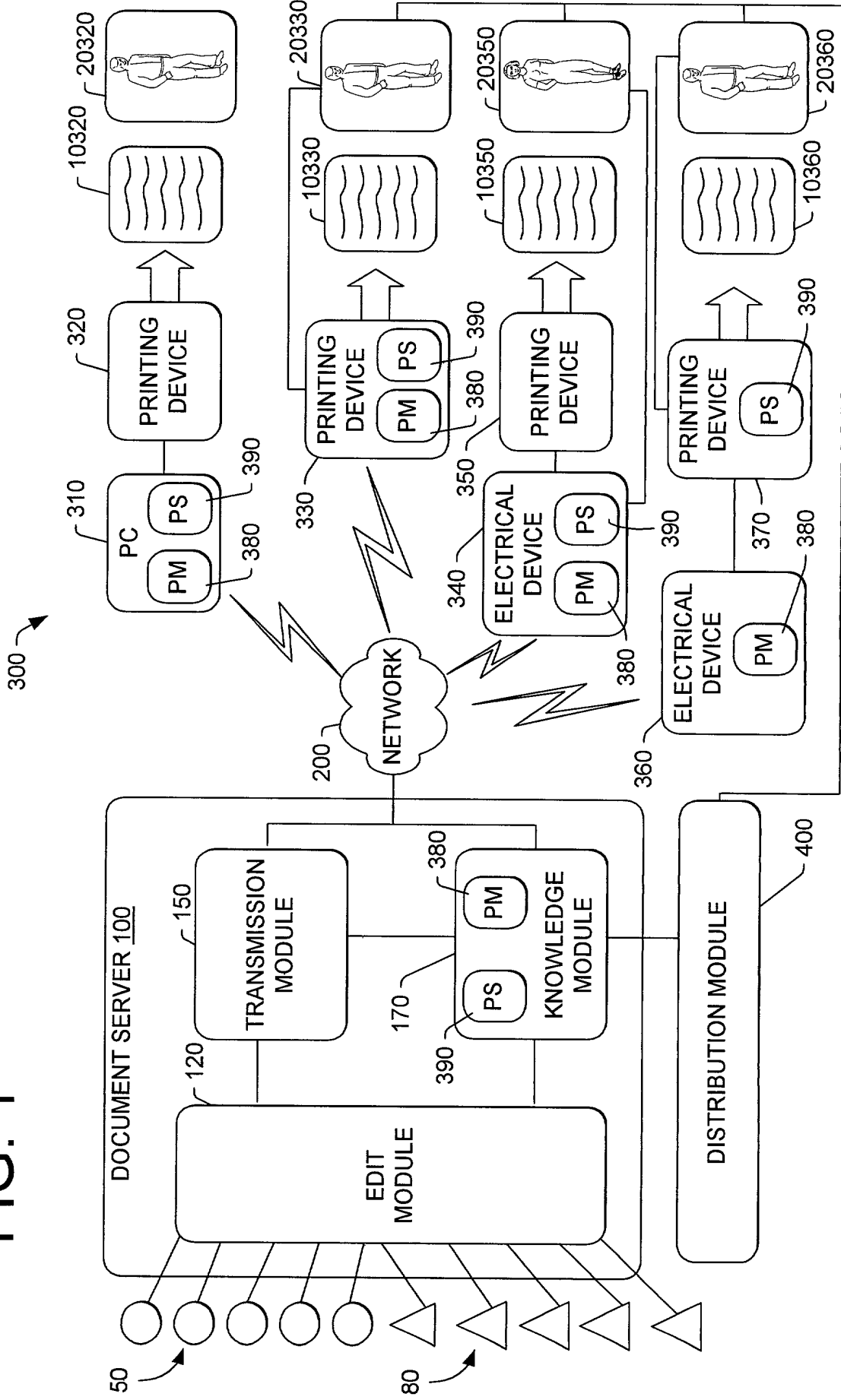
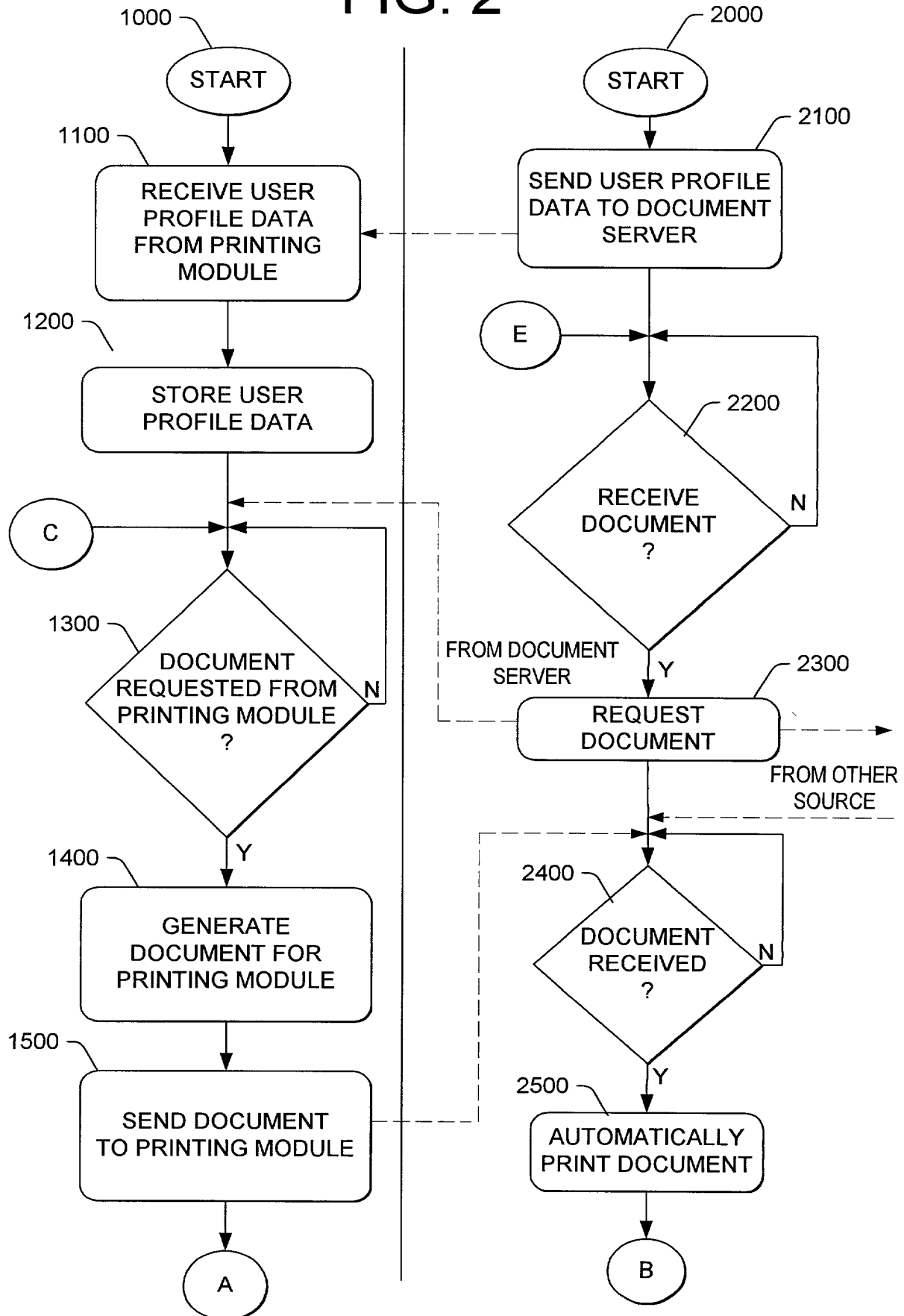


FIG. 2



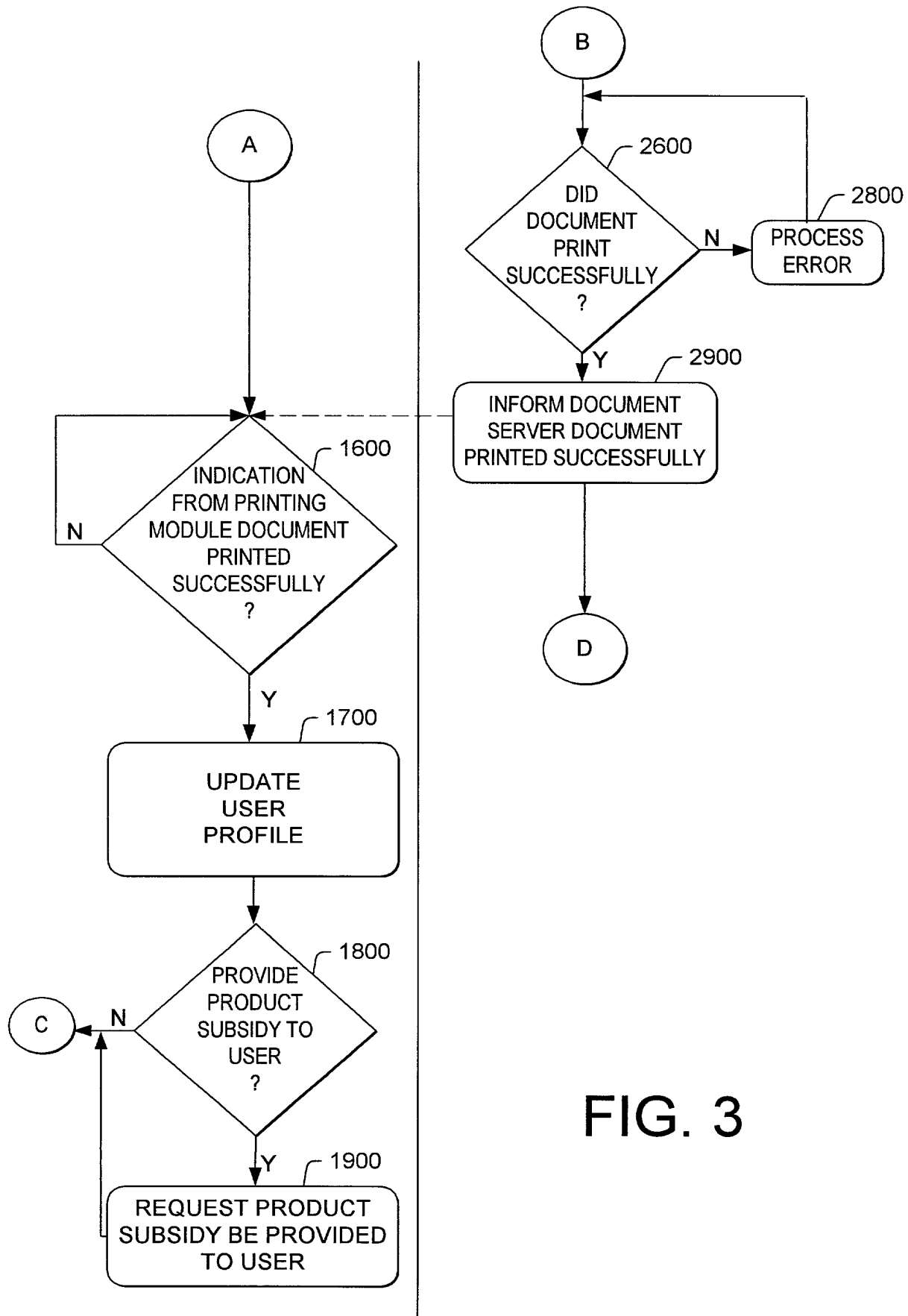


FIG. 3

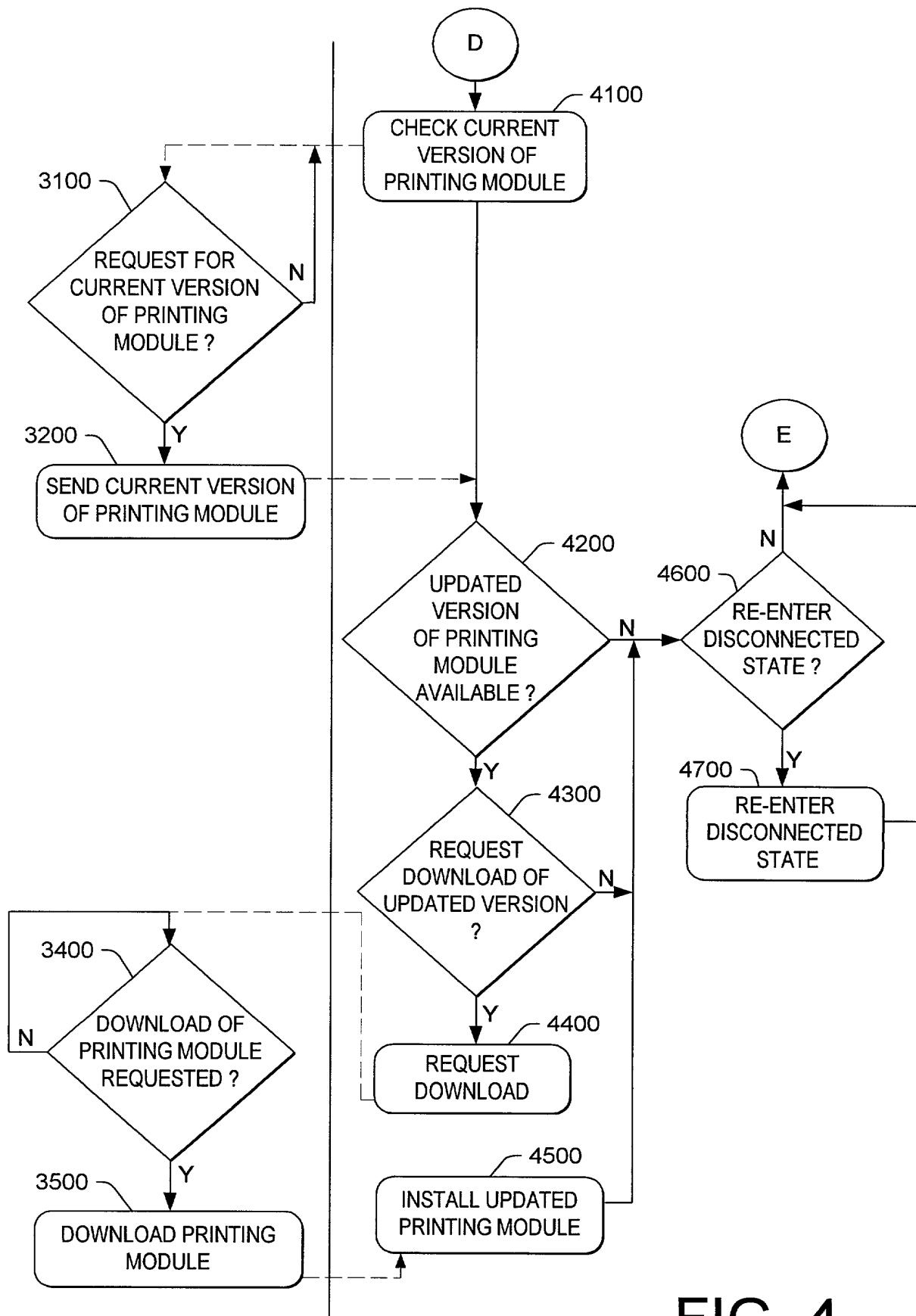





FIG. 4

06325040-060799


HP Instant Delivery

**HEWLETT
PACKARD**
Expanding Possibilities

 Home
 **Download**
Product Information
Featured Publishers
Product Support
Get Listed
Developers Program
Instant Delivery Feedback
Enter to WIN...

Download Free Software

Get the information you want - News, sports, money, technology, hobbies and more - Right Now. Follow the steps below to bring your favorite publications to your printer:


-  **Save the install program to your PC's hard drive.**
Click the logo below to download the file now.
Remember where you save this file, you'll use it in step 2!

Printer


E-mail


HP can contact me ☒

Filename: installhpid.exe Size: 3.38Mb (approx. 20min at 28.8Kb)

**Download Here**

[Detailed Installation Instructions](#)
[System Requirements](#)
[View Readme file](#)
[Revision History](#)

-  **Run the install program.**
Locate the file you downloaded in step one, then double-click it.
Follow the instructions on the screen.



Please review the [Readme file](#) for important information.

After installation, the software starts automatically and tells you everything you need to know to get started.

HP Instant Delivery

**HEWLETT
PACKARD** Search
Contact HP Privacy Statement Use of this site indicates that you accept the Terms of Use
Copyright © 1998 Hewlett Packard Company

FIG. 5

0935040-060799

Tell Us About Yourself - Microsoft Internet Explorer

File Edit View Go Favorites Help

Back Forward Stop Refresh Home Search Favorites History Channels Edit Links

Tell Us About Yourself

Fields marked with red labels are required to be completed.

Name:

First, MI:

Last:

E-Mail Address:

Where will you use this product?

Company / Institution:

Company Name:

Street Address:

City: State: Zip:

Voice Phone: () Ext.

Printer Information

Printer Type: Printer Model:

Computer Information

What type of PC do you use? Internet connection

Areas of Interest

<input type="checkbox"/> Business/Finance	<input type="checkbox"/> Entertainment
<input type="checkbox"/> Home/Self Improvement	<input type="checkbox"/> Kids
<input type="checkbox"/> News	<input type="checkbox"/> Special Interest

Done My Computer

FIG. 6

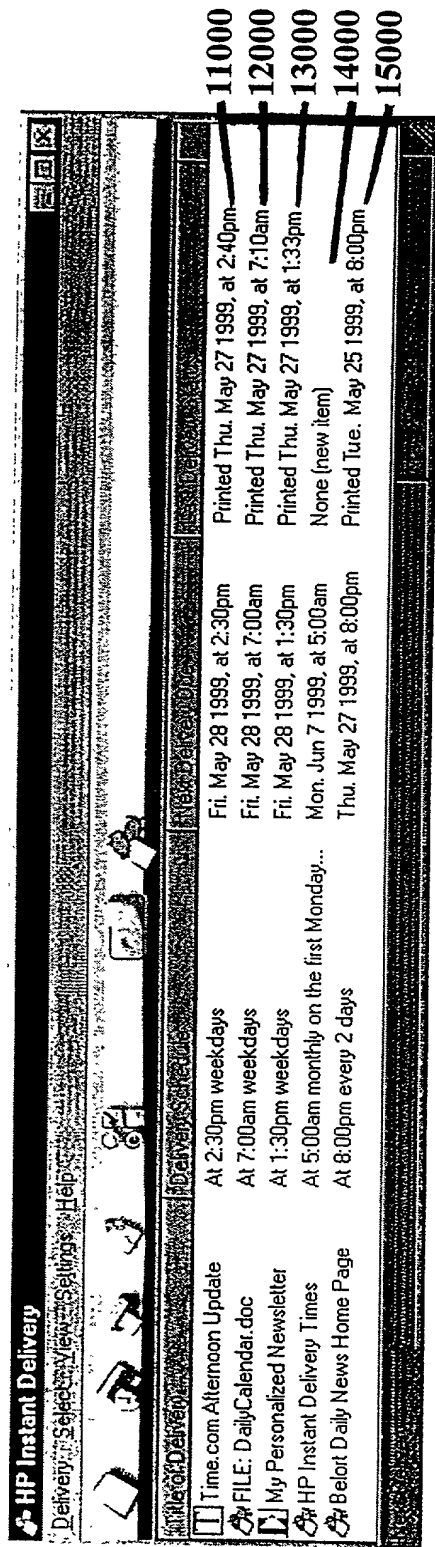


FIG. 7

09325040-060799

HP Instant Delivery - CNET News.com

Document Summary | **Schedule** | Start/End Date | Printer

Delivery Time and Frequency

☒ Use the Publisher's Recommended schedule
☐ Use My Default Schedule (available via the Settings menu)
☒ Use a Custom Schedule for this Delivery

Delivery Days

☒ Daily ☐ Weekly ☐ Monthly

☐ Every Day(s)

☒ Every weekday (Mon through Fri)

Time of Day

☒ Once at Select or type a delivery time

☐ Multiple times:

☐ Multiple times at a given frequency

From to

every minutes

OK Cancel Help

FIG. 8

062090"04052E60

money.com

International TIMEdaily

All Riding on Moscow

Current Indexes
Fri May 7 16:45 EDT

DJIA	8077.50	24.20
NASDAQ	2503.62	20.41
S&P 500	1335.00	22.11
NYSE	841.24	10.70
AMEX	787.26	9.86



GM Loses Suit

A Texas jury ruled General Motors must pay \$47.5 million to the family of a man whose neck was broken because his pickup truck did not have head restraints. But the family offered to forgo the \$31 million in punitive damages if GM would recall all trucks made without head restraints.

People

No Third Gunman

Authorities on Thursday appeared close to ruling out the possibility of a third gunman in the Columbine High School massacre. "At this point we are still exploring the possibility of a third shooter. But we do not have a suspect in mind, and none of the physical evidence points definitely to a third person," said a Jefferson County Sheriff's spokeswoman.

The spin in Washington: Moscow has "finally" agreed to Western demands for a peacekeeping force in Kosovo, leaving Milosevic isolated. The spin in Moscow: Russia has always accepted a peacekeeping force in Kosovo, and Washington has finally signed on to a peace plan the Kremlin has been pushing for weeks. The spin in Belgrade: Milosevic is ready to talk about a U.N. presence in Kosovo, but not before NATO halts its bombing — a position backed by Moscow. NATO remains committed to bombing until its demands are met, and pounded targets in Yugoslav cities overnight.

Peace now depends on finding a formula by which the Serbs can make sufficient concessions to persuade NATO to ground its bombers. "NATO's not going to easily suspend the bombing because it knows it may be politically unable to restart it," says TIME Pentagon correspondent Mark Thompson. "The alliance may even intensify the bombing in the hope of making Milosevic more compliant." It will be left to Moscow, once again, to choreograph a sequence of symmetrical Serb withdrawal and NATO bombing suspension. Russian envoy Viktor Chernomyrdin heads for Washington Sunday and plans to visit Belgrade shortly. The tracks toward a peace deal have now been laid.

For more visit <http://www.time.com/daily>

Entertainment

Entertainment

Party Politics

Vice President Al Gore stepped down as guest-host for Larry King's show last night when Republicans joined forces to complain that it was unfair to give him all of that free airtime this close to the 2000 election. Gore was to lead a discussion on the Littleton, Colorado, shootings; instead he just sat in as a guest for the King-moderated program. Although Gore gave up the mike voluntarily, his spokesman said it was unfortunate that Republicans had to "inject partisan politics" into coverage of the Columbine disaster.

For more visit <http://www.ew.com>

11000

FIG. 9A

Entertainment

Neeson Calls It Quits

Screen star Liam Neeson ("Schindler's List") has shocked the movie industry. The Irish-born actor told reporters in New York that he will never make another film and is quitting Hollywood in disgust after being treated like a "puppet."

TIMEdaily

Winner and Loser of the Day

Winner:

Keiko: The former star of the movie "Free Willy" is being trained to survive on his own. In preparation for the killer whale's exit from his watery Icelandic pen, Keiko is being weaned of human affection. Hopes are high that this treatment of tough love may enable the whale to live on his own by the end of the year.

Loser:

Bison: A federal appeals court has announced that bison leaving Yellowstone National Park in search of winter forage may be killed. Over the past three years more than 1,200 bison have met such a fate in an effort to protect Montana's cattle from being infected with a livestock disease.

Balkans Update TIMEdaily

Refugees Face Long Wait

Kosovo's refugees are unlikely to be home by Christmas, or even by Ramadan (which most of them celebrate). Even if all sides agree quickly to a peace deal, the logistics of reversing the Serbs' "ethnic cleansing" are mammoth. President Clinton met ethnic Albanian refugees in Germany Thursday and vowed to guarantee their return. But the very fact of those refugees' being in Germany -- and in New Jersey -- underscores the effectiveness of Milosevic's depopulation of the region. So even as President Clinton promised that the refugees would "go home in peace and freedom," U.N. humanitarian officials coordinating relief efforts urged Western leaders to support the refugees in Macedonia and Albania through a bitter Balkan winter.

"Many other problems remain to be solved before the refugees can return," says TIME Central Europe reporter Dejan Anastasijevic. Redeploying the 40,000 Serb troops from the ravaged province will take some time, as will the assembly and deployment of an international force. Rebuilding infrastructure damaged by the war to allow for the orderly movement of some 600,000 refugees back to their villages will take many months. But most will return as soon as possible. "The refugees are mostly rural people," says Anastasijevic. "They're far too attached to their land to consider settling anywhere else."

For more visit <http://www.time.com/daily>

Tech News TIMEdigital

New Standard for Music Online

Like it or not, the Net looks like the record store of the future. But how can record companies prevent downloading copyrighted music in digital form, without paying for it? Universal Records is inventing its own, brand-new digital format, one that will resist copying and that will require users to pay to download it. Universal announced Wednesday that it would try to have the new pay-for-play standard up and running by Christmas. The Recording Industry Association of America, which represents a number of big-time labels, is trying to promote its own standard under the name SDMI; apparently, Universal got tired of waiting for SDMI to materialize, so it decided to set a somewhat brisker pace.

For more visit <http://www.timedigital.com>

Visit us at <http://www.pathfinder.com>

Friday

S	M	T	W	T	F	S
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	31					

S	M	T	W	T	F	S
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30			

[illegible]

FIG. 10

Joe's Personalized Newspaper

Instant Delivery Edition

February 11, 1999



CLINTON IMPEACHMENT TRIAL

Majority Vote to Convict on Perjury Seems to Be in Doubt

By ERIC SCHMITT

WASHINGTON -- As the Senate privately debated for a second day whether to remove President Clinton from office, Republican support for conviction began cracking and an effort to censure the President had virtually died.

Three Republican moderates, Sens. James Jeffords of Vermont, Arlen Specter of Pennsylvania and John Chafee of Rhode Island, said they would oppose both the perjury and obstruction of justice charges. Two more Republicans said they would vote for obstruction but against the perjury charge, all but assuring that the perjury article would not receive a simple majority of 51 votes.

Jeffords said the president obstructed justice but that it did not rise to an removable offense. The senator predicted that as many as six other Republicans would vote against both charges, a forecast that if correct would mean the article on obstruction could also fail to get a majority, much less the 67 votes required for conviction.

Jeffords said he tried in his speech on the floor of the Senate on Wednesday to persuade his Republican colleagues not to buckle to pressure to convict the president. "I wanted to assure some people who were on the edge that it would be

continued on page 7

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Miami's generations of exiles |
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| 3 | Technology | More States Consider Laws Restricting
Junk E-Mail |
| 4 | Opinion | William Safire - Let the perp walk |
| 5 | Books | Be Cool: Chili Palmer's Latest Movie Idea |
| 6 | Arts | 1940s and 16th Century Vie for Top Oscar |



Miami's Generations of Exiles, Side by Side, Yet Worlds Apart

Special Report by MIREYA NAVARRO

MIAMI -- In a classroom of newly arrived Cubans, Alex Alvarez, a Cuban transplant himself, wasted no time recently scaring his students straight. "Welcome to the capitalist system," he said. "Each one of you is responsible for the amount of money you have in your pocket. The government is not responsible for whether you eat or whether you're poor or rich. The government doesn't guarantee you a job or a house."

"You've come to a rich and powerful country, but it is up to you whether or not you continue living like you did in Cuba."

Such warnings were not necessary 40 years ago, when Cubans fleeing Fidel Castro settled down here to await -- some to plot -- his downfall. They came from a capitalist system, with enough education and the necessary ambition to fulfill the American dream. But Castro has lasted so long that Miami now reflects different Cubas.

The people from today's Cuba, the children of the revolution, include those filling out job applications in Alvarez's class at the Training and Employment Council of South Florida, where he admonishes them, "Put down 'High School, Havana, Cuba.' Do not write 'Secundaria Ho Chi Minh.'"

The people from an earlier Cuba and their children have grown into a Miami Who's Who. The mayors of the city and county of Miami, the county police chief and the county state attorney are all Cuban-born or of Cuban descent. So are the president of the largest bank, the owner of the largest real estate developer, the managing partner of the largest law firm, nearly half of the county's 27-member delegation in the state Legislature and two of its six members of Congress.

About the only accomplishment Cuban-Americans cannot claim is regaining their country.

There's an irony and pathos about the situation," a University of Miami sociologist and expert on Cuban affairs, Max Castro, said. "They have succeeded as immigrants and failed as exiles."

That success and failure is etched on Miami, the main repository of Cuban dreams and dissent in the United States,

continued on page 8

FIG. 11A

NATIONAL
Science/Health

Pluto Is Again Most Distant Planet

By The Associated Press

WASHINGTON (AP) -- Tiny Pluto slips outside the orbit of Neptune today to resume its role as the farthest planet from the sun.

This return to normal comes just days after the littlest planet survived an attack that threatened to strip it of its planetary status altogether.

Normally the most distant planet, Pluto has an unusual orbit that takes 248 Earth-years to complete one trip around the sun. During just 20 of those years, it moves inside Neptune's orbit to become the eighth planet instead of the ninth.

Pluto moved inside Neptune's orbit on Feb. 7, 1979, and was on course to cross back outside at 5:08 a.m. EST today, scientists at the National Aeronautics and Space Administration calculated.

Pluto will remain the most distant planet for the next 228 years.

Just last week, the Paris-based International Astronomical Union, the world's leading astronomical organization, reaffirmed Pluto's standing as the smallest planet.

News reports had said Pluto might be demoted to a minor planet, or -- worse -- a trans-Neptunian object.

"No proposal to change the status of Pluto as the ninth planet in the solar system has been made by any division, commission or working group of the IAU responsible for solar system science," said the 80-year-old organization, the final authority on astronomical matters.

Even though Pluto was crossing Neptune's orbit, there was no worry about a collision, NASA said, because the planets were going to be far apart at the time.

Pluto was discovered Feb. 18, 1930, by Clyde Tombaugh at Lowell Observatory in Flagstaff, Ariz. Its moon, Charon, was found in 1979.

With a diameter of 1,430 miles, Pluto is less than half the size of any other planet and only two-thirds as big as Earth's moon. ♦

Childbirth: Fertility Clinics' Boom in Babies

By THE ASSOCIATED PRESS

The Centers for Disease Control and Prevention reports that fertility-enhanced births nationwide jumped 25 percent in a year but cautions that the sharp increase may be due to better reporting, not necessarily a rise in the number of women seeking help from fertility clinics.

"It's premature to draw too many conclusions about a trend between last year and this year," Dr. Lynne Wilcox, director of the centers' Division of Reproductive Health, said last week.

In the survey, 300 fertility clinics reported that their clients had 14,388 live deliveries from pregnancies that began in 1996. That was up from 11,516 reported the year before by 281 clinics.

The data were included in the centers' annual consumer guide to fertility clinic success rates. It was only the second time the agency had released such a report, which was required by Congress.

The report does not rank or grade the clinics because some specialize in more difficult fertility cases and have naturally lower success rates. But it includes other data like the "take-home baby rate," the multiple-birth rate and the number of embryos each clinic uses. About 38 percent of the deliveries reported in this year's guide were multiple births, up from 37 percent the year before. ♦

IN BRIEF

Study Links Scars to Breast Cancer

By THE ASSOCIATED PRESS

(February 11) A microscopic change in breast tissue can help doctors predict whether a woman whose biopsy is benign may develop cancer, researchers reported today in the New England Journal of Medicine. ♦

Anti-Cancer Drug To Be Tested

By THE ASSOCIATED PRESS

(February 11) Government scientists have finally been able to reproduce a scientist's highly publicized results for an anti-cancer drug and are now seeking to begin the first human tests. The Boston Globe reported today. ♦


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Color Copier/Printer
\$35,000 to \$45,000

HP Color LaserJet 8500
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\$5,999 to \$8,699*

No
wonder
they're
red in
the face.



FIG. 11B

Technology

More States Consider Laws Restricting Junk E-Mail

By JERI CLAUSING

As lawmakers around the country discover that their constituents are concerned about Internet issues, bills to regulate or outlaw junk e-mail are popping up in state legislatures. Three laws restricting junk e-mail are already on the books, and lawmakers are considering four more.

Advocates of the laws say they are encouraged by the new interest state lawmakers are taking in protecting consumers and Internet service providers from the scourge of junk e-mail, dubbed "spam" by annoyed recipients. However, they are also concerned that a patchwork of different laws across the country could hamper legitimate online marketing.

"We would prefer a single good federal law, but if we can't find a federal solution we're going to have to work state by state," said John Mozena, a board member of the Coalition Against Unsolicited Commercial E-Mail (CAUCE).

"The problem is, that would also make it much harder for people playing by the rules, and we don't want to make it difficult for people to do authentic business online," Mozena said. "We just want them to be paying their own freight. But we will take 50 state laws, so be it, if we can't get a federal law."

Legislators adjourning for their 1999 sessions have introduced proposed spam laws in Texas, Virginia, Washington and Maryland. More are expected before lawmakers in other states wrap up this year's business.

In the last Congress, CAUCE had been pushing for federal legislation to amend an existing junk fax law to also outlaw unsolicited junk e-mail. That bill, which was sponsored by Representative Chris Smith, a New Jersey Republican, made little headway. Instead, the Senate passed a proposal by Senators Robert Torricelli, a New Jersey Democrat, and Frank Murkowski, an Alaska Republican, that would have regulated junk e-mail by requiring that it be labeled as advertising and that senders provide an easy way for recipients to get off their mailing lists. Although that bill never made it through the House, the senators are expected to introduce a new version this year.

The Murkowski-Torricelli bill has been favored by the Direct Marketing Association (DMA). But groups like CAUCE say it still fails to address the issue of cost. Internet service providers pay for the cost of processing millions of pieces of junk e-mail, and some Internet users must pay their ISP or phone company for the time they spend downloading spam.

In a surprise announcement in December, CAUCE and the DMA said they had reached a tentative agreement on principles for new federal legislation. But Mozena said in a telephone interview last week that his optimism about finalizing that agreement was waning.

For now, he said, CAUCE is working with state lawmakers around the country, trying to add to the list of three states that already have laws restricting junk e-mail. He said the

IN BRIEF

Court Upholds Internet Office Ban

By THE ASSOCIATED PRESS

A federal appeals court has upheld a Virginia law that prohibits state employees from looking at sexually explicit material via the Internet while at work. ♦

National Security and the Net

By JERI CLAUSING

In a preview of what promises to be increasing clashes between national security interests and the Internet, House Commerce Committee members began debating whether or not Congress should limit the posting online of unclassified but sensitive information about potential disasters at the nation's chemical plants. ♦

Shareholders Sell E*Trade

By DAVID CAY JOHNSTON

Several major investors in the E*Trade Group, the online brokerage firm whose trading system was down for several hours on three days last week, sold big chunks of stock last week just before the outages. ♦

Sun in Deal With AOL

By BLOOMBERG NEWS

Sun, one of the biggest makers of computers that run Internet sites, will pay AOL a minimum of about \$1.28 billion over three years as part of their agreement to sell Netscape software. ♦



continued on page 9

FIG. 11C

ESSAY / By WILLIAM SAFIRE

Let the Perp Walk

Washington -- The System worked. What a great country.

Remember, only a couple of months ago, all those dire warnings out of the White House about the "national paralysis" that impeachment by the House of Representatives would bring? A parade of sleazy witnesses and a flood of pornographic evidence would, the Clintonites threatened, tie the Senate in knots throughout 1999. Furious partisanship would surely rip apart the political fabric.

That did not happen. The House ignored the threats and went ahead with the first impeachment of an elected President. The Senate majority leader made good on his prediction that the trial would take weeks, not months. And while the voices of a prosperous people murmuring "don't make waves" were listened to, the historic point was also made that the abuse of executive power in America has its consequences.

Were it not for the impeachment process, the notion that the Clinton scandals were "just about sex" would have prevailed. The President's behavior would have been tut-tutted at, but the focus would have been on bluenosed intrusion into private sin rather than the use of the power of the Presidency to defeat a civil rights lawsuit and impede a Federal grand jury.

That triumph of spin did not happen either. What did happen? In light of the voters' decision last November that punishment for high crimes was unwanted, the most that proponents of equal justice under law could hope for was public understanding of the damage Bill Clinton had done.

However the vote goes this week, the connect-the-dots presentation by the managers to the Senate persuaded most Americans paying attention that the President has (1) directed a campaign of lies and would still be lying were it not for the blue dress; (2) disregarded the privacy rights of those who dared to call him to account, and (3) delivered a heavy blow to the sanctity of the oath in courts of law.

Removal of a President in the absence of public outrage would be a Draconian mistake. Impeachment was an ineradicable mark on his record; the Senate trial was public purgatory. That's a powerful warning to future Presidents contemplating obstruction. The principled majority of

senators can vote to remove Clinton confident that a nullifying minority will make their condemnation purely symbolic.

Censure afterward? That would assuage the consciences of many who feel guilty about casting a vote that effectively condones the abuses of power. But that grand straddle would engrave over the portals to the Senate the initials "C.Y.A."

In such extraconstitutional punishment-by-exhortation, reputation, not retribution, is paramount: to its compromising proponents, it matters not if you convict or acquit, but how you blacken the name.

No, impeachment and its brief but educational trial will do. Senators worried about history or the next election can justify their acquittal votes with speeches in a final chapter to the official document titled "Not Guilty With an Explanation."

Clinton and his allies, in reacting to acquittal, will not be so foolish as to repeat the pep rally after the House impeachment. No champagne corks will publicly pop; sobriety with a pinch of contrition will be the message of the day. But the spin machine, by its nature, cannot stop itself from pumping out "much ado about nothing; purely partisan; all about sex."

Moreover, its Justice appointees (fresh from a cover-up of the Asian connection) will seek to get even with Ken Starr, even as its Carvilles will try to purge those Republicans who dared to speak truth to the power-abusive. That's making a move on "moving on."

We who keep hope alive that more of the story will be forced out can count on that knee-jerk, war-room reaction of the most vindictive Clintonites.

Starr's non-Monica reports may be mired in molasses, but likely to come are memoirs of disillusioned aides, toots from whistleblowers and straight reporting about an unraveling Administration (and its I.R.S.). These sources may open some of the hatches that Ruff, Lindsey & Co. has so fiercely battened down.

That's why we can take heart at how The System Worked.

We underestimated the House and it did itself proud. We trusted the Senate and it went by the constitutional book. Thus can the nation say, with Vernon Jordan, "Mission accomplished." ♦

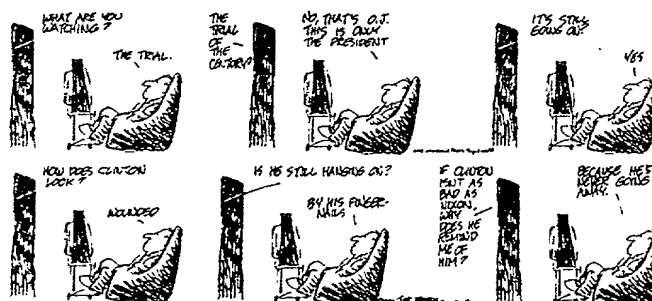


FIG. 11D

HP Instant Delivery Times

Shortcuts, Solutions and More



May 1999

www.instant-delivery.com



HP Instant Delivery -
Designed for HP Printers

The HP Instant Delivery newsletter has a new name! You'll get the same great helpful tips, just a slightly different name.

Beginning in June, HP Instant Delivery Times will be issued monthly. Make sure you update your subscription to the first Monday of every month!

New Version!

A new version of Instant Delivery will be available on May 8. HP Instant Delivery will automatically notify you when the new version is ready or you can go to the web site to download it. Here are some highlights of the new version:

- You can set up HP Instant Delivery to print your deliveries only when they have changed. This new feature allows you to print documents that are updated at irregular intervals. HP Instant Delivery will check as often as you like, but will only print when the content has been updated. There may be cases when pages that have not changed do print. Check Help to learn more.
- HP Instant Delivery works even harder to print your deliveries.

HP Instant Delivery Publisher Updates

Like baseball? CBS SportsLine features Major League Baseball. Go to the Featured Publishers page and click on Major League Baseball News to add daily delivery of the latest baseball action.

Get in touch with hometown news! From the Featured Publishers page click on Your Local News to sign up for your local newspaper. If your local paper is not listed, use the Feedback from the navigation bar to send us a message and we will try to add it.

We've added 25 more publications to the Catalog of Publications section of our web site. Keep checking our site, as we will always be adding more.

New look!

Starting in June our site will have a new look! Coming soon you can preview the site at beta.instant-delivery.com. Send Feedback to let us know what you think.

All brand and product names
are trademarks or registered
trademarks of their respective
companies

FIG. 12

**DECLARATION AND POWER OF ATTORNEY
FOR PATENT APPLICATION**
ATTORNEY DOCKET NO. 10991693-1

As a below named inventor, I hereby declare that:

My residence/post office address and citizenship are as stated below next to my name;

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

Document Delivery System For Automatically Printing A Document On A Printing Device

the specification of which is attached hereto unless the following box is checked:

() was filed on _____ as US Application Serial No. or PCT International Application Number _____ and was amended on _____ (if applicable).

I hereby state that I have reviewed and understood the contents of the above-identified specification, including the claims, as amended by any amendment(s) referred to above. I acknowledge the duty to disclose all information which is material to patentability as defined in 37 CFR 1.56.

Foreign Application(s) and/or Claim of Foreign Priority

I hereby claim foreign priority benefits under Title 35, United States Code Section 119 of any foreign application(s) for patent or inventor(s) certificate listed below and have also identified below any foreign application for patent or inventor(s) certificate having a filing date before that of the application on which priority is claimed:

COUNTRY	APPLICATION NUMBER	DATE FILED	PRIORITY CLAIMED UNDER 35 U.S.C. 119
			YES: _____ NO: _____
			YES: _____ NO: _____

Provisional Application

I hereby claim the benefit under Title 35, United States Code Section 119(e) of any United States provisional application(s) listed below:

APPLICATION SERIAL NUMBER	FILING DATE

U. S. Priority Claim

I hereby claim the benefit under Title 35, United States Code, Section 120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code Section 112, I acknowledge the duty to disclose material information as defined in Title 37, Code of Federal Regulations, Section 1.56(a) which occurred between the filing date of the prior application and the national or PCT international filing date of this application:

APPLICATION SERIAL NUMBER	FILING DATE	STATUS (patented/pending/abandoned)

POWER OF ATTORNEY:

As a named inventor, I hereby appoint the following attorney(s) and/or agent(s) listed below to prosecute this application and transact all business in the Patent and Trademark Office connected therewith.

Curtis G. Rose

Raymond A. Jenksi

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(541) 715-8442

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Full Name of Inventor: Jon A BrewsterCitizenship: USResidence: 488 Glacier Way, Monmouth OR 97361Post Office Address: Same as residence

Inventor's Signature

Date

**DECLARATION AND POWER OF ATTORNEY
FOR PATENT APPLICATION (continued)**

ATTORNEY DOCKET NO. 10991693-1

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Post Office Address: Same as residence

Inventor's Signature _____ Date _____

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Post Office Address: Same as residence

Inventor's Signature Aloke Gupta Date 6/4/99

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Residence: 955 NW Raintree Drive, Corvallis OR 97330
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Inventor's Signature Robert M Miller Date 6/4/99

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Post Office Address: Same as residence

Inventor's Signature Edmund B Neumann Date 6/4/99

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Inventor's Signature Michael Roberts Date 6/4/99

Full Name of # 7 joint inventor: Pieter J van Zee Citizenship: US
Residence: 1149 NW Alder Creek Dr, Corvallis OR 97330
Post Office Address: Same as residence

Inventor's Signature Pieter J van Zee Date June 3, 1999

Full Name of # 8 joint inventor: _____ Citizenship: _____
Residence: _____
Post Office Address: _____

Inventor's Signature _____ Date _____

**DECLARATION AND POWER OF ATTORNEY
FOR PATENT APPLICATION (continued)**

ATTORNEY DOCKET NO. 10991693-1

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Inventor's Signature *Kenneth W Crangle* Date 6/5/99

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Inventor's Signature _____ Date _____

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Residence: 955 NW Raintree Drive Corvallis OR 97330
Post Office Address: same as residence
Inventor's Signature _____ Date _____

Full Name of # 5 joint inventor: Edmund B Neumann Citizenship: US
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Inventor's Signature _____ Date _____

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Inventor's Signature _____ Date _____

Full Name of # 7 joint inventor: Pieter J van Zee Citizenship: US
Residence: 1149 NW Alder Creek Dr Corvallis OR 97330
Post Office Address: Same as residence
Inventor's Signature _____ Date _____

Full Name of # 8 joint inventor: _____ Citizenship: _____
Residence: _____
Post Office Address: _____
Inventor's Signature _____ Date _____